

National 4 Homework 6

All questions are non-calculator.

1. Calculate

- (a) 39.7×8 (b) $7 \times (5 - 9)$ (c) $8.07 + 13.2 + 256$ (d) $-8 + 3 - (-5)$ (e) $-56 \div (-7)$
(f) 5000×18.2 (g) $6.8 \div 100$ (h) $6 + 12 \div 4 - 2$ (i) $15400 \div 4000$ (j) $27.2 - 4.63 + 8.9$

2. First class stamps cost 60 pence and second class stamps cost 50 pence.

Peter pays £27 to post some letters.

If he posted 20 of his letters first class, how many did he post second class?



3. There are 954 pupils in Castleford High School. The ratio of boys to girls in the school is 4:5.
How many boys are in the school?

4.



The cost of seven calculators is £62.30.
How much will it cost for 5 calculators?

5. The diameter of an e-coli bacterial cell is 5×10^{-4} mm. Write this number in full.

6. Calculate

- (a) $\frac{5}{6}$ of 72 (b) $\frac{3}{4}$ of £860 (c) $\frac{7}{8}$ of 6400 (d) $\frac{2}{5}$ of £13.50

7. The distance between Glasgow and Inverness is 132 miles.

A bus leaves Glasgow at 1415 and arrives in Inverness at 1715.

Calculate the average speed of the bus in miles per hour.



8. The temperatures recorded in cities around the world on a day in December are shown in the table. What is the difference between the lowest temperature and highest temperature shown?

Stockholm	-4°C	Norsk	-28°C
Cairo	15°C	Rome	9°C
Toronto	-2°C	Anchorage	-8°C
Brisbane	24°C	Dhahran	17°C

9. Calculate

- (a) 50% of £85 (b) 25% of £1800 (c) 10% of 45 litres (d) 75% of 52 (e) 20% of £350

10. There are four rounds in a gymnastics competition.

A gymnast scores 9.86, 9.07 and 9.4 in the first three rounds and has a total score of 37.85 at the end of the competition.

Calculate her score in the fourth round.

